ELSEVIER

Comput. Methods Appl. Mech. Engrg. 132 (1996) 359–360

Computer methods in applied mechanics and engineering

Author Index of Volume 132

Andersen, B.S. see Sørensen, N.J. 345–357

Cho, J.R. and Tinsley Oden, J. A priori error estimations of *hp*-finite element approximations for hierarchical models of plate- and shell-like structures 135–177

Eberlein, R. see Holzapfel, G.A. 45– 61
Eyheramendy, D. see Zimmermann, Th. 259–276
Eyheramendy, D. and Zimmermann, Th. Object-oriented finite elements. II. A symbolic environment for automatic programming 277–304

Ghosh, S., Lee, K. and Moorthy, S. Two scale analysis of heterogeneous elastic-plastic materials with asymptotic homogenization and Voronoi cell finite element model 63–116
Grosh, K. and Pinsky, P.M. Design of Galerkin Generalized Least Squares methods for Timoshenko beams 1– 16

Holzapfel, G.A., Eberlein, R., Wriggers, P. and Weizsäcker, H.W. Large strain analysis of soft biological membranes: Formulation and finite element analysis 45– 61
Holzapfel, G.A. and Simo, J.C. Entropy elasticity of isotropic rubber-like solids at finite strains 17– 44

Jog, C. Distributed-parameter optimization and topology design for non-linear thermoelasticity 117–134

Kwok, Y.-K. and Wu, C.C.K. Numerical simulation of electrochemical diffusion–migration model with reaction at electrodes 305–317

Lee, K. see Ghosh, S. 63–116

Moorthy, S. see Ghosh, S. 63–116

Pinsky, P.M. see Grosh, K. 1– 16
Pinsky, P.M. see Thompson, L.L. 195–227
Pinsky, P.M. see Thompson, L.L. 229–258

Reddy, J.N. see Reddy, M.P. 179–193
Reddy, M.P. and Reddy, J.N. Multigrid methods to accelerate convergence of element-by-element solution algorithms for viscous incompressible flows 179–193
Russo, A. Bubble stabilization of finite element methods for the linearized incompressible Navier-Stokes equations 335–343

Simo, J.C. see Holzapfel, G.A. 17– 44

Song, C. and Wolf, J.P. Consistent infinitesimal finite-element cell method for diffusion equation in unbounded medium 319–334
Sørensen, N.J. and Andersen, B.S. A parallel finite element method for the analysis of crystalline solids 345–357

Thompson, L.L. and Pinsky, P.M. A space–time finite element method for structural acoustics in infinite domains. Part 1: Formulation, stability and convergence 195–227
Thompson, L.L. and Pinsky, P.M. A space–time finite element method for structural acoustics in infinite domains. Part 2: Exact time-dependent non-reflecting boundary conditions 229–258
Tinsley Oden, J. see Cho, J.R. 135–177

Weizsäcker, H.W. see Holzapfel, G.A. 45– 61
Wolf, J.P. see Song, C. 319–334
Wriggers, P. see Holzapfel, G.A. 45– 61
Wu, C.C.K. see Kwok, Y.-K. 305–317

Zimmermann, Th. see Eyheramendy, D. 277–304
Zimmermann, Th. and Eyheramendy, D. Object-oriented finite elements. I. Principles of symbolic derivations and automatic programming 259–276

ELSEVIER

Comput. Methods Appl. Mech. Engrg. 132 (1996) 361–364

Computer methods in applied mechanics and engineering

Subject Index of Volume 132

Coupled problems

Numerical simulation of electrochemical diffusion–migration model with reaction at electrodes, Y.-K. Kwok and C.C.K. Wu 305–317

Consistent infinitesimal finite-element cell method for diffusion equation in unbounded medium, C. Song and J.P. Wolf 319–334

Design of programs

Object-oriented finite elements. I. Principles of symbolic derivations and automatic programming, Th. Zimmermann and D. Eyheramendy 259–276

Object-oriented finite elements. II. A symbolic environment for automatic programming, D. Eyheramendy and Th. Zimmermann 277–304

Dynamics

A space–time finite element method for structural acoustics in infinite domains. Part 1: Formulation, stability and convergence, L.L. Thompson and P.M. Pinsky 195–227

A space–time finite element method for structural acoustics in infinite domains. Part 2: Exact time-dependent non-reflecting boundary conditions, L.L. Thompson and P.M. Pinsky 229–258

Object-oriented finite elements. I. Principles of symbolic derivations and automatic programming, Th. Zimmermann and D. Eyheramendy 259–276

Elasticity

Design of Galerkin Generalized Least Squares methods for Timoshenko beams, K. Grosh and P.M. Pinsky 1– 16

Distributed-parameter optimization and topology design for non-linear thermoelasticity, C. Jog 117–134

Finite difference methods

Numerical simulation of electrochemical diffusion–migration model with reaction at electrodes, Y.-K. Kwok and C.C.K. Wu 305–317

Finite element and matrix methods

Design of Galerkin Generalized Least Squares methods for Timoshenko beams, K. Grosh and P.M. Pinsky 1– 16

Entropy elasticity of isotropic rubber-like solids at finite strains, G.A. Holzapfel and J.C. Simo 17– 44

Large strain analysis of soft biological membranes: Formulation and finite element analysis, G.A. Holzapfel, R. Eberlein, P. Wriggers and H.W. Weizsäcker 45– 61

Two scale analysis of heterogeneous elastic-plastic materials with asymptotic homogenization and Voronoi cell finite element model, S. Ghosh, K. Lee and S. Moorthy 63–116

A priori error estimations of *hp*-finite element approximations for hierarchical models of plate- and shell-like structures, J.R. Cho and J. Tinsley Oden 135–177
Multigrid methods to accelerate convergence of element-by-element solution algorithms for viscous incompressible flows, M.P. Reddy and J.N. Reddy 179–193
A space–time finite element method for structural acoustics in infinite domains. Part 1: Formulation, stability and convergence, L.L. Thompson and P.M. Pinsky 195–227
A space–time finite element method for structural acoustics in infinite domains. Part 2: Exact time-dependent non-reflecting boundary conditions, L.L. Thompson and P.M. Pinsky 229–258
Object-oriented finite elements. I. Principles of symbolic derivations and automatic programming, Th. Zimmermann and D. Eyheramendy 259–276
Object-oriented finite elements. II. A symbolic environment for automatic programming, D. Eyheramendy and Th. Zimmermann 277–304
Consistent infinitesimal finite-element cell method for diffusion equation in unbounded medium, C. Song and J.P. Wolf 319–334
Bubble stabilization of finite element methods for the linearized incompressible Navier–Stokes equations, A. Russo 335–343
A parallel finite element method for the analysis of crystalline solids, N.J. Sørensen and B.S. Andersen 345–357

Fluid mechanics
Bubble stabilization of finite element methods for the linearized incompressible Navier–Stokes equations, A. Russo 335–343

General Rayleigh–Ritz and Galerkin techniques
Design of Galerkin Generalized Least Squares methods for Timoshenko beams, K. Grosh and P.M. Pinsky 1– 16
A space–time finite element method for structural acoustics in infinite domains. Part 1: Formulation, stability and convergence, L.L. Thompson and P.M. Pinsky 195–227
A space–time finite element method for structural acoustics in infinite domains. Part 2: Exact time-dependent non-reflecting boundary conditions, L.L. Thompson and P.M. Pinsky 229–252
Bubble stabilization of finite element methods for the linearized incompressible Navier–Stokes equations, A. Russo 335–343

Heat and diffusion
Numerical simulation of electrochemical diffusion–migration model with reaction at electrodes, Y.-K. Kwok and C.C.K. Wu 305–317
Consistent infinitesimal finite-element cell method for diffusion equation in unbounded medium, C. Song and J.P. Wolf 319–334

Incompressible and near incompressible media
Entropy elasticity of isotropic rubber-like solids at finite strains, G.A. Holzapfel and J.C. Simo 17– 44
Large strain analysis of soft biological membranes: Formulation and finite element analysis, G.A. Holzapfel, R. Eberlein, P. Wriggers and H.W. Weizsäcker 45– 61
Multigrid methods to accelerate convergence of element-by-element solution algorithms for viscous incompressible flows, M.P. Reddy and J.N. Reddy 179–193
Bubble stabilization of finite element methods for the linearized incompressible Navier–Stokes equations, A. Russo 335–343

Nonlinear mechanics
Entropy elasticity of isotropic rubber-like solids at finite strains, G.A. Holzapfel and J.C. Simo 17– 44
Large strain analysis of soft biological membranes: Formulation and finite element analysis, G.A. Holzapfel, R. Eberlein, P. Wriggers and H.W. Weizsäcker 45– 61
Two scale analysis of heterogeneous elastic-plastic materials with asymptotic homogenization and Voronoi cell finite element model, S. Ghosh, K. Lee and S. Moorthy 63–116
Distributed-parameter optimization and topology design for non-linear thermoelasticity, C. Jog 117–134

Numerical solution procedures
Entropy elasticity of isotropic rubber-like solids at finite strains, G.A. Holzapfel and J.C. Simo 17– 44
Large strain analysis of soft biological membranes: Formulation and finite element analysis, G.A. Holzapfel, R. Eberlein, P. Wriggers and H.W. Weizsäcker 45– 61
A space–time finite element method for structural acoustics in infinite domains. Part 1: Formulation, stability and convergence, L.L. Thompson and P.M. Pinsky 195–227
A space–time finite element method for structural acoustics in infinite domains. Part 2: Exact time-dependent non-reflecting boundary conditions, L.L. Thompson and P.M. Pinsky 229–258
Numerical simulation of electrochemical diffusion–migration model with reaction at electrodes, Y.-K. Kwok and C.C.K. Wu 305–317
Consistent infinitesimal finite-element cell method for diffusion equation in unbounded medium, C. Song and J.P. Wolf 319–334
Bubble stabilization of finite element methods for the linearized incompressible Navier–Stokes equations, A. Russo 335–343

Optimization
Distributed-parameter optimization and topology design for non-linear thermoelasticity, C. Jog 117–134

Optimization and design of structures
Distributed-parameter optimization and topology design for non-linear thermoelasticity, C. Jog 117–134

Plasticity
Two scale analysis of heterogeneous elastic-plastic materials with asymptotic homogenization and Voronoi cell finite element model, S. Ghosh, K. Lee and S. Moorthy 63–116
A parallel finite element method for the analysis of crystalline solids, N.J. Sørensen and B.S. Andersen 345–357

Problems in physics
Numerical simulation of electrochemical diffusion–migration model with reaction at electrodes, Y.-K. Kwok and C.C.K. Wu 305–317

Shells and plates
A priori error estimations of *hp*-finite element approximations for hierarchical models of plate- and shell-like structures, J.R. Cho and J. Tinsley Oden 135–177

Structural mechanics
Design of Galerkin Generalized Least Squares methods for Timoshenko beams, K. Grosh and P.M. Pinsky 1– 16
Distributed-parameter optimization and topology design for non-linear thermoelasticity, C. Jog 117–134
A priori error estimations of *hp*-finite element approximations for hierarchical models of plate- and shell-like structures, J.R. Cho and J. Tinsley Oden 135–177
Object-oriented finite elements. I. Principles of symbolic derivations and automatic programming, Th. Zimmermann and D. Eyheramendy 259–276
Consistent infinitesimal finite-element cell method for diffusion equation in unbounded medium, C. Song and J.P. Wolf 319–334

Subsonic flow
Multigrid methods to accelerate convergence of element-by-element solution algorithms for viscous incompressible flows, M.P. Reddy and J.N. Reddy 179–193

Thermal effects and thermodynamics
Distributed-parameter optimization and topology design for non-linear thermoelasticity, C. Jog 117–134

Viscous flow
Multigrid methods to accelerate convergence of element-by-element solution algorithms for viscous incompressible flows, M.P. Reddy and J.N. Reddy 179–193
Bubble stabilization of finite element methods for the linearized incompressible Navier–Stokes equations, A. Russo 335–343